



## Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Texas

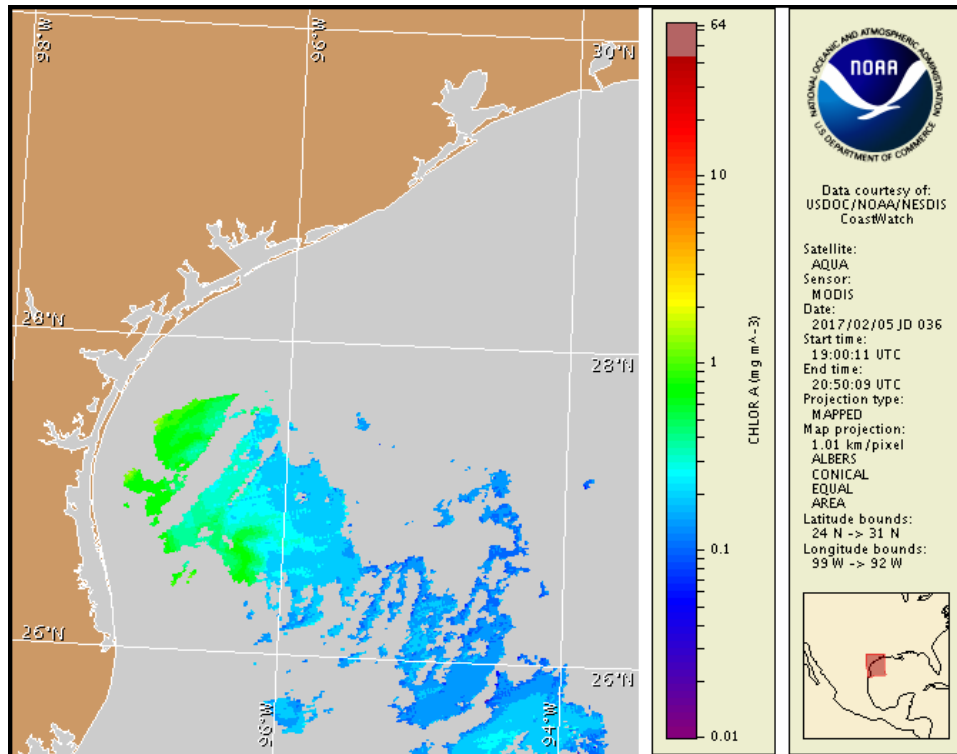
Monday, 06 February 2017

NOAA National Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Monday, January 30, 2017



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from January 27 to February 3: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

[http://tidesandcurrents.noaa.gov/hab/hab\\_publication/habfs\\_bulletin\\_guide.pdf](http://tidesandcurrents.noaa.gov/hab/hab_publication/habfs_bulletin_guide.pdf)

Detailed sample information can be obtained through the Texas Parks and Wildlife Department at:

<http://www.tpwd.state.tx.us/landwater/water/envconcerns/hab/redtide/status.phtml>

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit the NOAA Harmful Algal Bloom Operational Forecast System bulletin archive:

<http://tidesandcurrents.noaa.gov/hab/bulletins.html>

## Conditions Report

There is currently no indication of *Karenia brevis* (commonly known as Texas red tide) along the coast of Texas. No respiratory irritation is expected Monday, February 6 through Monday, February 13.

Check [http://tidesandcurrents.noaa.gov/hab/beach\\_conditions.html](http://tidesandcurrents.noaa.gov/hab/beach_conditions.html) for recent, local observations.

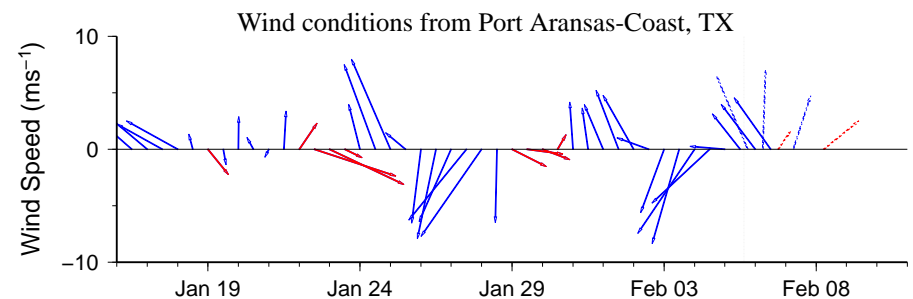
## Analysis

Sampling from the Texas A&M University's Imaging FlowCytobot (IFCB), located on the Port Aransas ship channel, indicates that *Karenia sp.* concentrations range between 'not present' and 'very low' (TAMU; 01/31-2/6). The IFCB estimates *Karenia brevis* concentrations as well as *K. mikimotoi* and *K. papilionacea*. For information on area shellfish restrictions, contact the Texas Department of State Health Services.

Recent MODIS Aqua ensemble imagery (2/5; shown left) is completely obscured by clouds along the coast of Texas from Sabine Pass to the Rio Grande, preventing analysis.

Forecast models based on predicted near-surface currents indicate negligible transport from the Port Aransas region from February 5 to February 9.

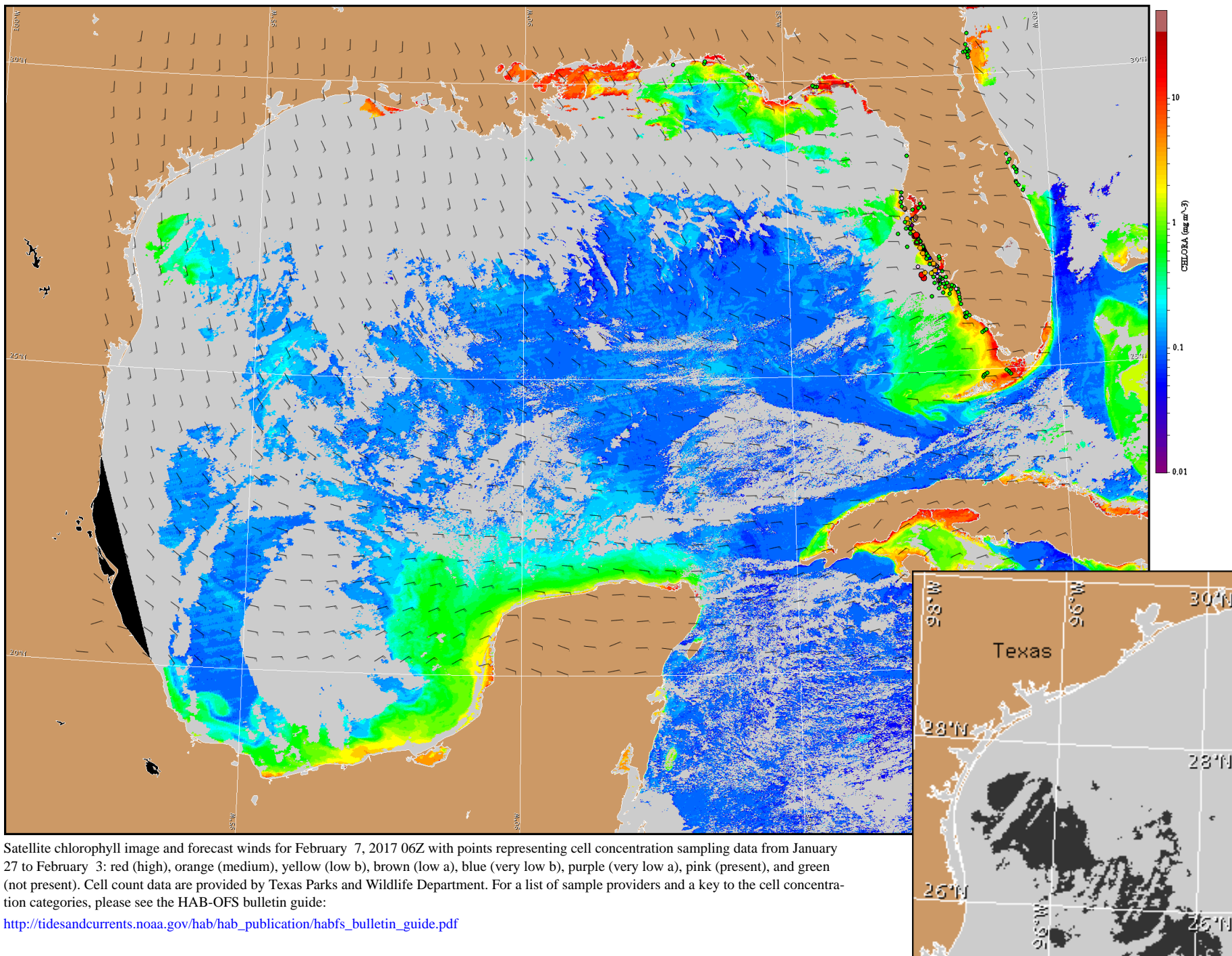
Urizar, Yang, Ludema



Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

## Wind Analysis

**Port Aransas to Matagorda Ship Channel:** South winds (10-15 kn, 5-8 m/s) today through Wednesday. Southwest winds (10 kn) Wednesday night shifting north (10-15 kn) after midnight through Thursday. Southeast to south winds (10-15 kn) Friday.



Satellite chlorophyll image and forecast winds for February 7, 2017 06Z with points representing cell concentration sampling data from January 27 to February 3: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

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Verified and suspected HAB areas shown in red. Other areas with *K. brevis* optical characteristics shown in yellow (see p. 1 analysis for interpretation).